

CAPE FEAR RIVER BASIN

0209801100 JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC

LOCATION.--Lat 35°43'38", long 79°02'35", Chatham County, Hydrologic Unit 03030002, at Bells Landing and 2.0 mi southeast of Griffins Crossroads.

PERIOD OF RECORD.--Water years 1991 to current year.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in November 1994 and May 1995. Results may be obtained from the District office in Raleigh. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)	BARO-	TRANS-	OXYGEN, DIS-	OXYGEN, DIS-	OXYGEN, DIS-
				WATER WHOLE FIELD (STANDARD UNITS) (00400)			METRIC PRES-SURE (MM OF HG) (00025)	PAR-ENCY (SECCHI DISK) (M) (00078)			
NOV 03...	1330	1.00	165	7.6	19.5	13	758	0.70	8.7	95	31
MAY 16...	1230	1.00	135	8.7	24.5	20	750	--	9.9	121	27
AUG 01...	1230	1.00	134	8.8	32.5	30	752	0.55	8.6	119	27
DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNESIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM PERCENT (00932)	SODIUM AD-SORPTION RATIO (00931)	POTASSIUM, DIS-SOLVED (MG/L AS K) (00935)	BICARBONATE, IT-FLD (MG/L AS HCO3) (99440)	ALKALINITY, CARBONATE, IT-FLD (MG/L - CAC03) (99430)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLORIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUORIDE, DIS-SOLVED (MG/L AS F) (00950)
NOV 03...	7.6	2.8	19	54	1	3.5	40	33	17	15	0.20
MAY 16...	6.6	2.5	14	50	1	2.8	27	26	14	12	0.20
AUG 01...	6.8	2.5	13	48	1	3.0	28	23	12	11	0.20
DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITROGEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS-SOLVED (MG/L AS N) (00623)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS TOTAL (MG/L AS P) (00665)
NOV 03...	4.8	100	<0.010	<0.050	<0.015	0.70	--	0.70	0.30	0.70	0.030
MAY 16...	3.6	84	<0.010	<0.050	0.030	0.77	0.37	0.80	0.40	0.80	0.030
AUG 01...	5.3	80	<0.010	<0.050	0.020	0.38	0.28	0.40	0.30	0.40	<0.010

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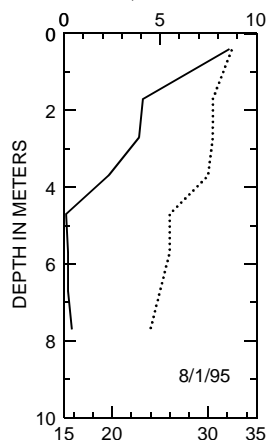
0209801100 JORDAN LAKE AT BELLS LANDING NEAR GRIFFINS CROSSROADS, NC--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1994 TO SEPTEMBER 1995

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	CHLOR-A PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70953)	CHLOR-B PHYTO- PLANK- TON CHROMO FLUOROM (UG/L) (70954)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	CADMIUM TOTAL RECOV- ERABLE (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COBALT, TOTAL RECOV- ERABLE (UG/L AS CO) (01037)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)
NOV 03...	<0.010	<0.010	24.0	1.00	70	<1	<1	<1	<1	<1
MAY 16...	<0.010	<0.010	13.0	0.500	160	<1	<1	<1	<1	3
AUG 01...	<0.010	<0.010	10.0	<0.100	60	<1	<1	<1	<1	1

DATE	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	MOLYB- DENUM, TOTAL RECOV- ERABLE (UG/L AS MO) (01062)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL RECOV- ERABLE (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 03...	160	<1	120	<0.10	3	<1	<1	<1	<10	7.3
MAY 16...	170	<1	40	<0.10	<1	1	<1	<1	<10	9.3
AUG 01...	130	<1	70	<0.10	2	<1	<1	<1	<10	10

DISSOLVED OXYGEN, IN MILLIGRAMS PER LITER



TEMPERATURE, IN DEGREES CELSIUS

EXPLANATION

—— DISSOLVED OXYGEN WATER TEMPERATURE

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LOCATION.--Lat 35°43'38", long 79°02'35", Chatham County, Hydrologic Unit 03030002, at Bells Landing and 2.0 mi southeast of Griffins Crossroads.

PERIOD OF RECORD.--Water years 1991-1995, August 1999.

REMARKS.--Station operated to define water quality as part of a six-county regional surface-water quality assessment. A GC/FID scan for trace organic compounds was performed on samples collected in November 1994 and May 1995. Results may be obtained from the District office in Raleigh. Samples for nutrient and chlorophyll *a* and *b* analyses were collected through a sampling zone equal to double the secchi disk depth using the depth-integration sampling technique.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DATE	TIME	SAMPLING DEPTH (FEET) (00003)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM- COBALT UNITS) (00080)	BAROMETRIC PRESSURE (MM OF HG) (00025)	TRANSPARENCY (SECCHI DISK) (M) (00078)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00300) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	
AUG 24...	1230	1.00	160	8.4	28.3	55	758	.80	7.6	99	30
DATE		CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	SODIUM ADSORPTION RATIO (00932) (00931)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	ANC WATER UNFILTERED IT FIELD MG/L AS CACO3 (00419)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	
AUG 24...		7.3	2.9	18	53	1	3.4	35	31	16	14
DATE		FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SiO2) (00955)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS DISSOLVED TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTHOPHOS- PHATE DISSOLVED (MG/L AS P) (00671)	CHLOR-A PHYTOPLANKTON CHROMOFLUOROM (UG/L) (70953)	CHLOR-B PHYTOPLANKTON CHROMOFLUOROM (UG/L) (70954)
AUG 24...		.17	2.7	<.001	<.005	<.002	.67	E.033	<.001	15.0	.580

